

Synthesis of novel mono- and bisaminophosphoryl compounds and their membrane transport properties for acidic substrates

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Abstract

Some novel aminophosphoryl compounds were synthesized by the Kabachnik-Fields reaction. Their membrane transport properties for mono- and polyfunctional carboxylic acids with different number of functional groups were studied to establish that the transport rate of acidic substrates through liquid impregnated membranes increases in going from mono- to diphosphoryl carriers. Additional hydrophilic groups in the substrate molecule, too, affect transport efficiency. © 2008 MAIK Nauka.

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